

Title (en)
Radiation image capturing system

Title (de)
Strahlungsbild-Erfassungssystem

Title (fr)
Système de capture d'images de radiation

Publication
EP 2022401 A2 20090211 (EN)

Application
EP 08013372 A 20080724

Priority
• JP 2007195935 A 20070727
• JP 2008044366 A 20080226
• JP 2008150345 A 20080609

Abstract (en)
A radiation image capturing system (10) detects the position of a radiation detecting cassette (24) disposed below a patient (14) and the position of a radiation source (82) for emitting a radiation (X), based on the differences between the propagation times of radio waves emitted from an antenna device (29) to an image capturing apparatus (22) and the radiation detecting cassette (24). Based on the detected positions, the relative positions of the image capturing apparatus (22) and the radiation detecting cassette (24) are calculated, and then compared with each other by a position determining unit (124) to judge how the image capturing apparatus (22) is positioned with respect to the radiation detecting cassette (24). If the image capturing apparatus (22) is not positioned in head-on facing relation to the radiation detecting cassette (24), then a warning is issued, and an actuating mechanism (90) moves the image capturing apparatus (22) to an appropriate position.

IPC 8 full level
A61B 6/00 (2006.01)

CPC (source: EP KR US)
A61B 6/00 (2013.01 - KR); **A61B 6/4283** (2013.01 - EP US); **A61B 6/4464** (2013.01 - EP US); **A61B 6/4476** (2013.01 - EP US); **A61B 6/4494** (2013.01 - EP US); **A61B 6/547** (2013.01 - EP US); **A61B 6/548** (2013.01 - EP US); **A61B 6/587** (2013.01 - EP US); **A61B 6/4423** (2013.01 - EP US); **A61B 6/4488** (2013.01 - EP US)

Citation (applicant)
JP 2007037837 A 20070215 - CANON KK

Citation (examination)
• US 2003194056 A1 20031016 - SPAHN MARTIN [DE]
• US 6092928 A 20000725 - MATTSON RODNEY A [US], et al
• WEI TECH ANG ET AL: "Nonlinear Regression Model of a Low-MEMS Accelerometer", IEEE SENSORS JOURNAL, IEEE SERVICE CENTER, NEW YORK, NY, US, vol. 7, no. 1, 1 January 2007 (2007-01-01), pages 81 - 88, XP011152485, ISSN: 1530-437X, DOI: 10.1109/JSEN.2006.886995

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
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EP 08013372 A 20080724; CN 200810134382 A 20080728; JP 2008150345 A 20080609; KR 20080073052 A 20080725; US 17974008 A 20080725